

April 24, 2023

Mr. Fred Bickford  
527 LLC  
228 7<sup>th</sup> Street  
Eaton, CO 80615

**Subsurface Assessment Report  
Highway 52 & County Road 7 Property  
Parcel Number 146703000004  
NW<sup>1</sup>/<sub>4</sub> NW<sup>1</sup>/<sub>4</sub> SEC.3 T1N R68W 6PM  
Weld County, Colorado**

Dear Mr. Bickford,

Eagle Environmental Consulting LLC. (EAGLE) is pleased to present this Subsurface Assessment Report to 527 LLC (527) for the property located at the southeast corner of Highway 52 and CR 7 in Weld County, Colorado (site).

## **1.0 SITE BACKGROUND**

EAGLE was requested by 527 to investigate potential subsurface impacts around existing and historical oil and gas facilities at the site. On April 4, 2023 and April 5, 2023, EAGLE advanced eight (8) soil borings (MW-01 through MW-08) around an existing K.P. Kaufman (KPK) location and four (4) soil borings (TW-01 through TW-04) around a plugged wellhead location in the field east of the KPK location. Soil samples were collected for laboratory analysis from eight (8) of the borings where potential impacts were observed in the field. Groundwater monitoring wells were constructed in ten (10) of the borings where groundwater was encountered. Groundwater samples were collected for laboratory analysis from the ten (10) monitoring wells. During groundwater sampling activities, groundwater was observed at approximately 11 feet below ground surface (bgs).

The following narrative details field assessment activities completed at the site.

## **2.0 SITE DESCRIPTION**

The property is located within the northwest quarter of the northwest quarter of Section 3, Township 1 North, Range 68 West, of the 6<sup>th</sup> Prime Meridian, in Weld County, Colorado. A topographic site location map is presented as Figure 1. An aerial site layout map is presented as Figure 2.

### **2.1 Site Hydrogeology**

The soil lithology observed during assessment activities consisted of silty clay from the ground surface to approximately 20 feet bgs. Groundwater during monitoring well installation and groundwater sampling activities was observed at approximately 11 feet bgs. A detailed description of the subsurface lithology beneath the site is presented in the boring logs included in Attachment A.

### **3.0 MONITORING WELL INSTALLATION ACTIVITIES**

EAGLE was requested by 527 to investigate for potential subsurface impacts around existing and historical oil and gas facilities at the site. Eight (8) groundwater monitoring wells (MW-01 through MW-08) were proposed around the existing KPK location and four (4) temporary groundwater monitoring wells (TW-01 through TW-04) were proposed around a plugged wellhead further east on the site. Following approval, EAGLE scheduled soil boring advancement activities.

#### **3.1 Field Work Preparation and Planning**

The Utility Notification Center of Colorado (UNCC) was called at least 72 hours in advance of drilling activities to confirm that no unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed. A private utility locator, Advanced Locating Services, was also called to be onsite the morning of assessment activities.

#### **3.2 Soil Boring Advancement/Monitoring Well Completion Activities**

On April 4, 2023 and April 5, 2023, eight (8) soil borings (MW-01 through MW-08) were advanced in the proposed locations around the existing KPK facility. Following advancement activities, each soil boring was completed as a 2-inch, groundwater monitoring well for groundwater sample collection. Additionally, four (4) soil borings (TW-01 through TW-04) were advanced around a plugged wellhead east of the KPK facility. Following advancement activities, two (2) of the soil borings (TW-02 and TW-03) were completed as 1-inch, temporary groundwater monitoring wells. During soil boring advancement, TW-01 and TW-04 were observed dry to refusal at approximately 15 feet bgs and 14 feet bgs, respectively. The soil borings were not completed as groundwater monitoring wells. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig.

Each boring location was logged in the field according to soil description, soil classification, moisture content, staining, and volatile organic compound (VOC) concentrations. Monitoring wells MW-01 through MW-08 were completed with 2-inch, schedule 40, poly vinyl chloride (PVC) pipe, each to a total depth of approximately 20 feet bgs. Approximately 15-feet of 0.010 slot, 2-inch, PVC screen was placed at the bottom of each boring followed by 5 feet of solid PVC riser. The well annulus of each monitoring well was backfilled with 10/20 silica sand to approximately 3 feet above screen, followed by a hydrated bentonite seal to the surface. All monitoring wells were completed at the surface with 8-inch, traffic-rated steel flush mounts and concrete. Temporary monitoring wells, TW-02 and TW-03, were completed with 1-inch, schedule 40, poly vinyl chloride (PVC) pipe, each to a total depth of approximately 15 feet bgs. Approximately 10-feet of 0.010 slot, 1-inch, PVC screen was placed at the bottom of each boring followed by 5 feet of solid PVC riser. The well annulus of each monitoring well was backfilled with 10/20 silica sand to approximately 3 feet above screen, followed by a hydrated bentonite seal to the surface. The solid PVC risers were left as stickups above ground surface for visibility.

Following monitoring well completions, each well was developed through purging the location a minimum of six well volumes using disposable PVC bailers.

EAGLE recorded spatial locations of each boring using a Trimble Geo7X instrument. Soil boring logs/monitoring well completion diagrams are included in Attachment A. Soil boring/monitoring well locations are presented in Figure 2 through Figure 6.

### 3.3 Soil Sampling Procedures

During soil boring advancement/monitoring well installation activities, soil samples were collected continuously within 5-foot, plastic sample liners. The samples within the plastic liners were separated in 2.5-foot intervals for soil identification and analysis, where applicable. A portion from each 2.5-foot interval, where applicable, was placed in a sealable plastic bag, for VOC headspace analysis utilizing a field calibrated Photoionization Detector (PID). In soil borings where potential impacts were observed, the portion of each boring that had the highest PID field screen reading was placed in two (2) 4-ounce glass jars and packed in an iced cooler for transport to Origins Laboratory (Origins) in Denver, Colorado. PID readings are summarized in Table 1.

Based on field observations and screening, select soil samples (MW-01@15-17.5', MW-04@15-17.5', MW-05@17.5-20', MW-06@17.5-20', MW-07@15-17.5', MW-08@15-17.5', TW-02@12.5-15', and TW-03@12.5-15') were submitted to Origins, following standard chain of custody (COC) procedures, for laboratory analysis. Each soil sample was analyzed for Colorado Oil and Gas Conservation Commission (COGCC) Table 915-1 Organic Compounds of Concern and Total Petroleum Hydrocarbons (TPH).

#### 3.3.1 Soil Analytical Results

Based on laboratory analytical results:

- Soil sample MW-05@17.5-20' contained 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.
- Soil sample MW-06@17.5-20' contained 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.
- Soil sample TW-03@12.5-15' contained Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.

Soil analytical results are summarized in Table 2 and Table 3 and presented in Figures 3 and 4. The soil sample laboratory analytical report is included in Attachment B.

### 3.4 Groundwater Sampling Procedures

Groundwater samples were collected from monitoring wells MW-01 through MW-08 on April 10, 2023 and from TW-02 and TW-03 on April 12, 2023. Prior to sample collection, depth to groundwater data was collected using a decontaminated interface probe capable of measuring the depth to groundwater or light non-aqueous phase liquid (LNAPL) to an accuracy of 0.01 feet, and each well was purged a minimum of three well volumes.

Relative groundwater elevations within each monitoring well ranged from 88.36 (MW-08) to 84.81 (MW-04). The groundwater flow direction beneath the site during the April 2023 sampling event was predominantly to the north, with an average hydraulic gradient of 0.007 feet per foot (ft/ft) across the site (measured from MW-08 to MW-04). Groundwater elevation data are summarized in Table 4 and presented in Figure 5.

Groundwater samples were collected from each monitoring well in 40 milliliter (mL) amber vials and submitted for laboratory analysis of Benzene, Toluene, Ethylbenzene, Total Xylenes, Naphthalene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene following EPA Method 8260D. The samples were transported in an iced cooler under standard COC procedures to Origins, and were received within the required holding time.

### **3.4.1 Groundwater Analytical Results**

Based on laboratory analytical results:

- The groundwater sample collected from MW-05 contained 1,2,4 Trimethylbenzene above the applicable COGCC Table 915-1 regulatory limit.
- The groundwater sample collected from MW-06 contained 1,3,5 Trimethylbenzene above the applicable COGCC Table 915-1 regulatory limit.

Groundwater analytical results are summarized in Table 5 and presented in Figure 6. The groundwater laboratory analytical reports are included in Attachment B.

## **4.0 SUBSURFACE LINE ASSESSMENT**

EAGLE also excavated trenches across the access road to approximately 5 feet bgs in three (3) separate locations along the southern edge of the site. A pot holing trailer was utilized for soft-excavation to determine the possible presence of unmarked lines, as requested. Findings from the trench excavations are presented on Figure 2.

## **5.0 CONCLUSIONS**

Based on the information collected during field assessment activities completed at the site April 4, 2023 through April 12, 2023, EAGLE concludes the following:

- Soil sample MW-05@17.5-20' contained 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.
- Soil sample MW-06@17.5-20' contained 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.
- Groundwater sample collected from MW-05 contained 1,2,4 Trimethylbenzene above the applicable COGCC Table 915-1 regulatory limit.
- Groundwater sample collected from MW-06 contained 1,3,5 Trimethylbenzene above the applicable COGCC Table 915-1 regulatory limit.
- Soil sample TW-03@12.5-15' contained Naphthalene above COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.



EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

***EAGLE ENVIRONMENTAL CONSULTING LLC***

A handwritten signature in blue ink, appearing to read 'David Castro', with a stylized, elongated flourish extending to the right.

David Castro  
Senior Project Scientist



## **FIGURES**

**Figure 1: Topographic Site Location Map**

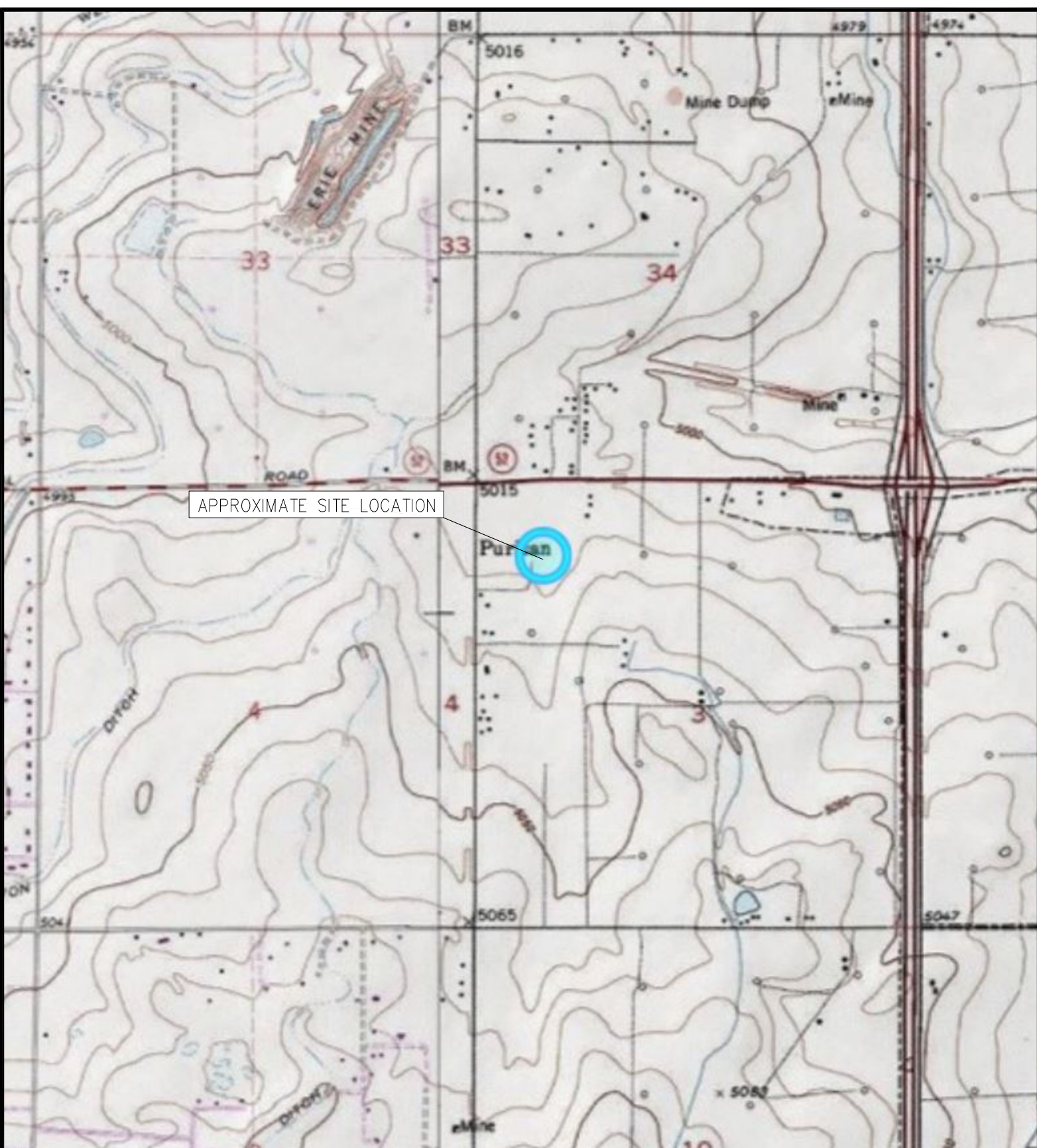
**Figure 2: Aerial Site Layout Map**

**Figure 3: Soil Analytical Results Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Analytical Results Map**

**Figure 5: Groundwater Analytical Results Map**

**Figure 6: Groundwater Elevation Map**



TOPOGRAPHIC SITE LOCATION MAP  
 527 LLC  
 HWY 52 & CR 7  
 PROPERTY ASSESSMENT  
 PARCEL NUMBER 146703000004  
 NW¼ NW¼ SEC.3 T1N R68W 6PM  
 WELD COUNTY, COLORADO



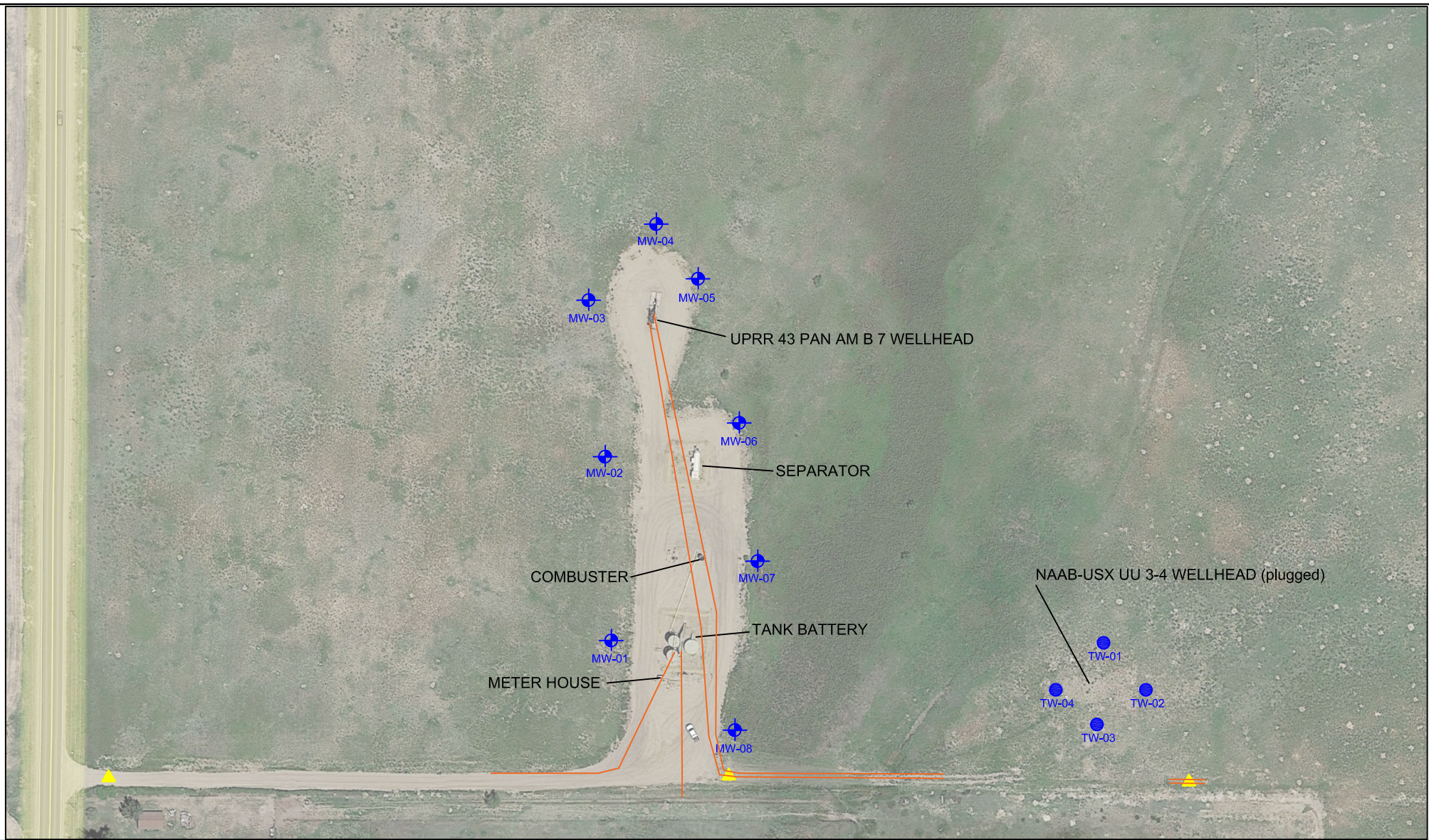
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP  
 FREDERICK, CO QUADRANGLE 2022

FIGURE NO. 1







# LEGEND

● APPROXIMATE MONITORING WELL LOCATION

## PARAMETERS

### SAMPLE LOCATION

DATE

DEPTH (FEET)

B = BENZENE (mg/kg)

T = TOLUENE (mg/kg)

E = ETHYLBENZENE (mg/kg)

X = TOTAL XYLENES (mg/kg)

G = TPH-GRO (mg/kg)

D = TPH-DRO (mg/kg)

R = TPH-RRO (mg/kg)

1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)

1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

## NOTES:

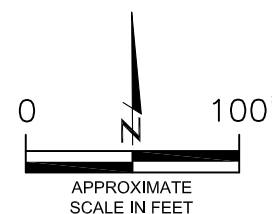
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVEL LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

(NS) = NO SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2021



## SOIL ANALYTICAL MAP

HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

FIGURE NO.

3

DRAWN BY:

DAC



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449

MW-04@15-17.5'  
04/04/2023  
15-17.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 3.81  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-04

MW-05@17.5-20'  
04/04/2023  
17.5-20'  
B = <0.00200  
T = <0.00200  
E = 0.0781  
X = 0.206  
G = 187  
D = 106  
R = <100  
1,2,4-TMB = **0.365**  
1,3,5-TMB = **0.0693**

MW-05

MW-03  
(NS)

MW-06@17.5-20'  
04/04/2023  
17.5-20'  
B = <0.00200  
T = <0.00200  
E = 0.00602  
X = 0.0268  
G = 204  
D = 78.3  
R = <100  
1,2,4-TMB = **1.63**  
1,3,5-TMB = **0.0511**

MW-06

MW-02  
(NS)

MW-07@15-17.5'  
04/04/2023  
15-17.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-07

TW-02@12.5-15'  
04/05/2023  
12.5-15'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 6.63  
D = 180  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

TW-01  
(NS)

TW-04  
(NS)

TW-02

TW-03

MW-08@15-17.5'  
04/05/2023  
15-17.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 10.3  
D = 188  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-08

TW-03@12.5-15'  
04/05/2023  
12.5-15'  
B = <0.00200  
T = <0.00200  
E = 0.00204  
X = 0.00434  
G = 130  
D = 78.5  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = 0.00298

MW-01@15-17.5'  
04/05/2023  
15-17.5'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = 0.714  
D = 146  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200

MW-01



# LEGEND

● APPROXIMATE MONITORING WELL LOCATION

## PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
APPROXIMATE DEPTH  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

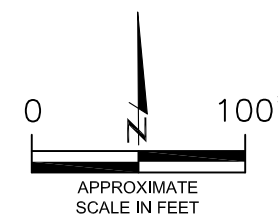
NOTES:  
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVEL LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

(NS) = NO SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2021



SOIL POLYCYCLIC AROMATIC HYDROCARBONS MAP  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

FIGURE NO.  
4

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DAC



MW-04@15-17.5'  
04/04/2023  
15-17.5'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.00078  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

MW-05@17.5-20'  
04/04/2023  
17.5-20'  
1-Methylnaphthalene = **0.03**  
2-Methylnaphthalene = **0.0543**  
Acenaphthene = 0.000798  
Anthracene = 0.002  
Benzo(a)anthracene = 0.00275  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = 0.00113  
Benzo(k)fluoranthene = ND  
Chrysene = 0.00463  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00413  
Fluorene = 0.0179  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.0172**  
Pyrene = 0.00732

MW-06@17.5-20'  
04/04/2023  
17.5-20'  
1-Methylnaphthalene = **0.189**  
2-Methylnaphthalene = **0.384**  
Acenaphthene = 0.00137  
Anthracene = 0.00412  
Benzo(a)anthracene = 0.00498  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = 0.00184  
Benzo(k)fluoranthene = 0.000827  
Chrysene = 0.0105  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00642  
Fluorene = 0.0551  
Indeno(1,2,3-CD)pyrene = 0.000764  
Naphthalene = **0.05**  
Pyrene = 0.0124

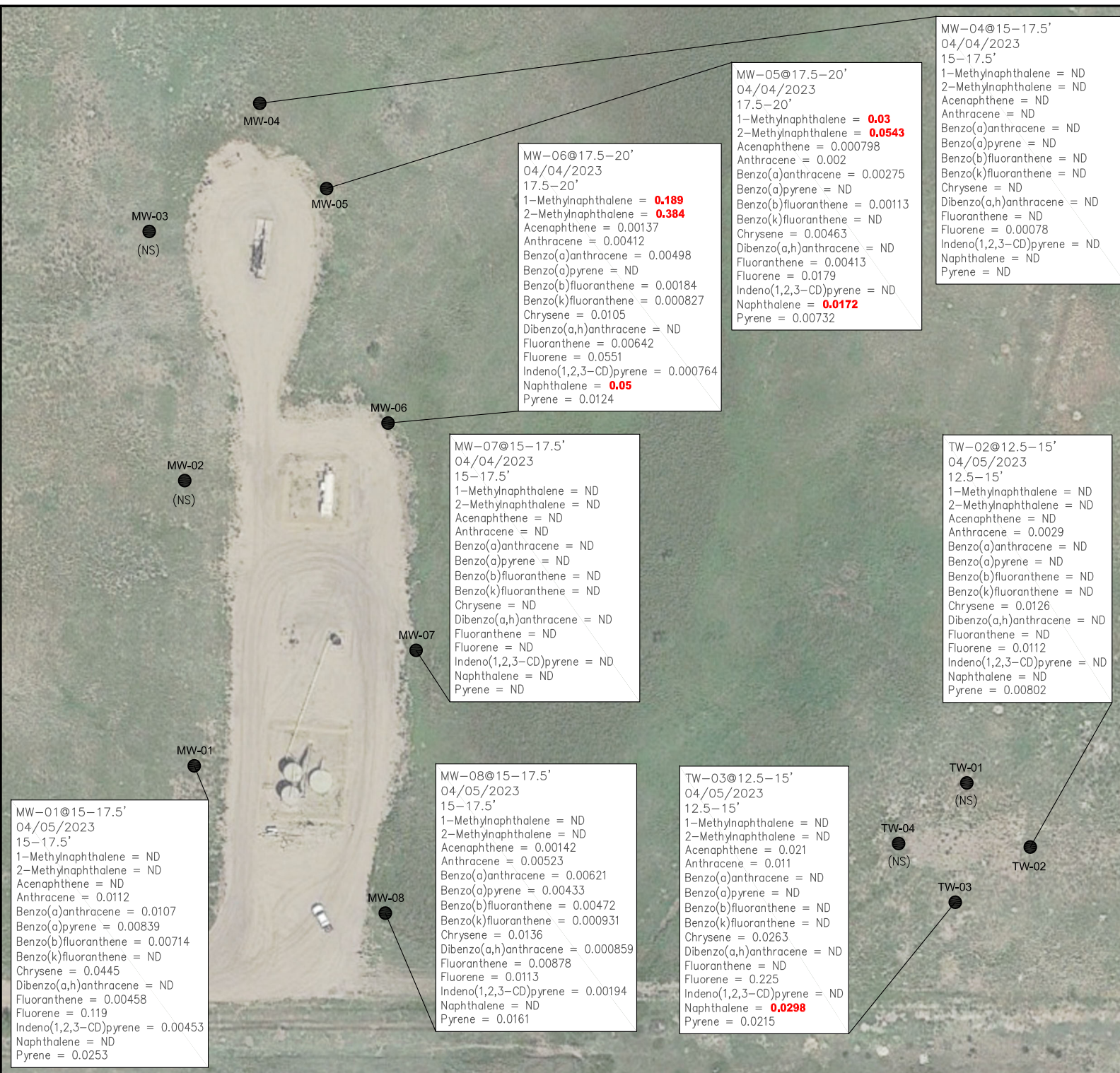
MW-07@15-17.5'  
04/04/2023  
15-17.5'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = ND  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = ND  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = ND  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = ND

TW-02@12.5-15'  
04/05/2023  
12.5-15'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = 0.0029  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0126  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.0112  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = ND  
Pyrene = 0.00802

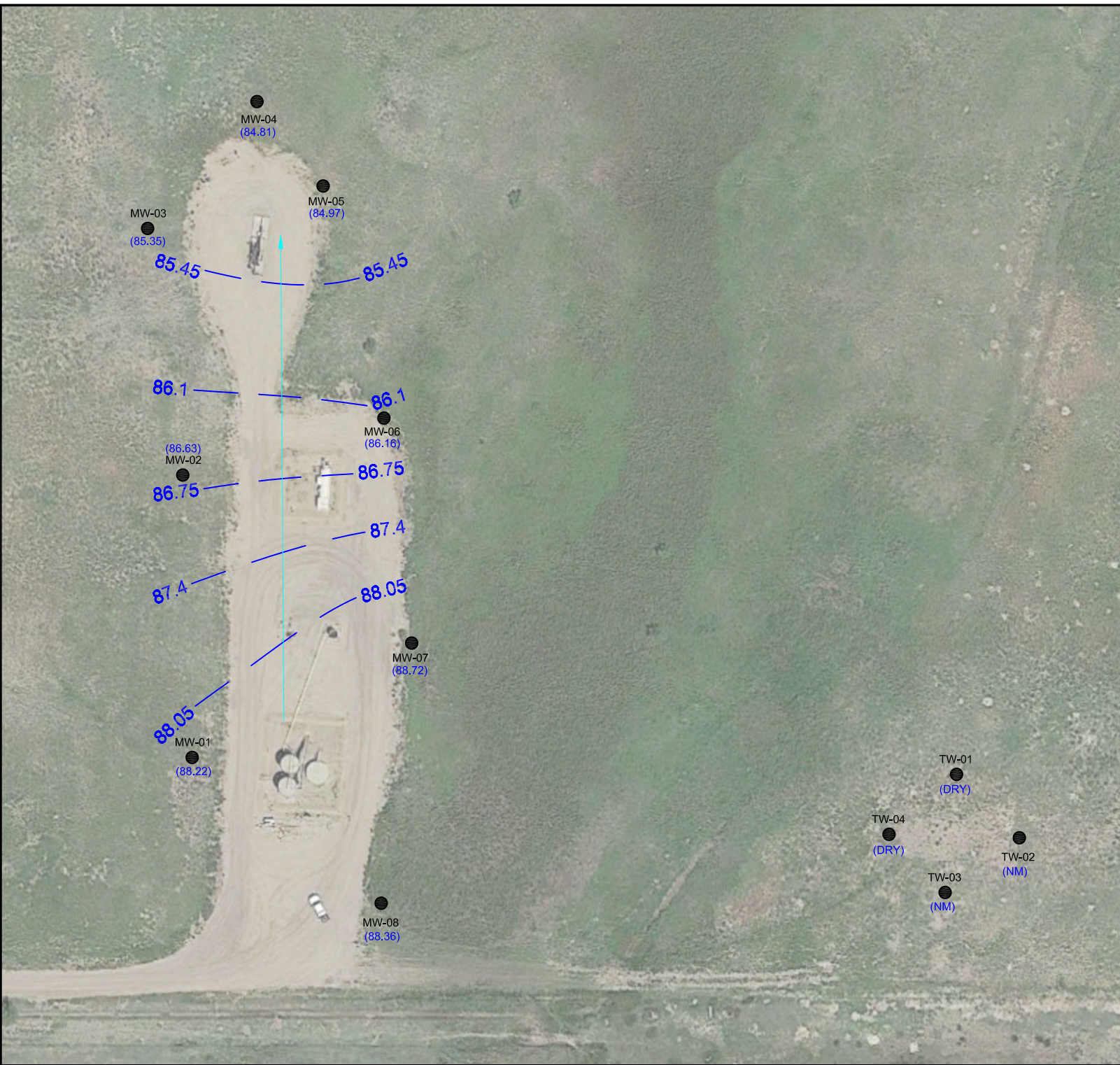
TW-03@12.5-15'  
04/05/2023  
12.5-15'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = 0.021  
Anthracene = 0.011  
Benzo(a)anthracene = ND  
Benzo(a)pyrene = ND  
Benzo(b)fluoranthene = ND  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0263  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = ND  
Fluorene = 0.225  
Indeno(1,2,3-CD)pyrene = ND  
Naphthalene = **0.0298**  
Pyrene = 0.0215

MW-08@15-17.5'  
04/05/2023  
15-17.5'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = 0.00142  
Anthracene = 0.00523  
Benzo(a)anthracene = 0.00621  
Benzo(a)pyrene = 0.00433  
Benzo(b)fluoranthene = 0.00472  
Benzo(k)fluoranthene = 0.000931  
Chrysene = 0.0136  
Dibenzo(a,h)anthracene = 0.000859  
Fluoranthene = 0.00878  
Fluorene = 0.0113  
Indeno(1,2,3-CD)pyrene = 0.00194  
Naphthalene = ND  
Pyrene = 0.0161

MW-01@15-17.5'  
04/05/2023  
15-17.5'  
1-Methylnaphthalene = ND  
2-Methylnaphthalene = ND  
Acenaphthene = ND  
Anthracene = 0.0112  
Benzo(a)anthracene = 0.0107  
Benzo(a)pyrene = 0.00839  
Benzo(b)fluoranthene = 0.00714  
Benzo(k)fluoranthene = ND  
Chrysene = 0.0445  
Dibenzo(a,h)anthracene = ND  
Fluoranthene = 0.00458  
Fluorene = 0.119  
Indeno(1,2,3-CD)pyrene = 0.00453  
Naphthalene = ND  
Pyrene = 0.0253







#### LEGEND

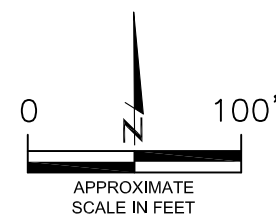
- MW-01 APPROXIMATE MONITORING WELL LOCATION
- (98.98) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED RELATIVE GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED ON  
04/10/23.

NM = NOT MEASURED

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2021



GROUNDWATER ELEVATION MAP  
(04/10/23)  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

FIGURE NO.  
5

DRAWN BY:  
DAC



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC  
8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449



MW-04  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-04

MW-05  
04/10/2023  
B = <1.00  
T = <1.00  
E = 56  
X = 119  
1,2,4 TMB = **82.1**  
1,3,5 TMB = 7.44  
N = 3.3

MW-05

MW-03  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-03

MW-06  
04/10/2023  
B = <1.00  
T = <1.00  
E = 95.5  
X = 477  
1,2,4 TMB = <2.00  
1,3,5 TMB = **130**  
N = 23.9

MW-06

MW-02

MW-02  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-07  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-07

MW-01

MW-01  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-08  
04/10/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

MW-08

TW-02  
04/12/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

TW-02

TW-01  
(NS)

TW-04  
(NS)

TW-03

TW-03  
04/12/2023  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
1,2,4 TMB = <2.00  
1,3,5 TMB = <2.00  
N = <2.00

## LEGEND

MW-01

APPROXIMATE MONITORING WELL LOCATION

## PARAMETERS

### SAMPLE LOCATION

DATE SAMPLE COLLECTED

B = BENZENE (ug/L)

T = TOLUENE (ug/L)

E = ETHYLBENZENE (ug/L)

X = TOTAL XYLENES (ug/L)

1,2,4 TMB = 1,2,4 TRIMETHYLBENZENE (ug/L)

1,3,5 TMB = 1,3,5 TRIMETHYLBENZENE (ug/L)

N = NAPHTHALENE (ug/L)

ug/L = MICROGRAMS PER LITER

(NS) = NOT SAMPLED

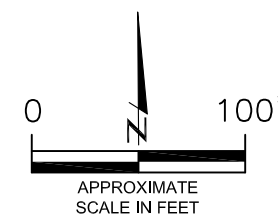
### NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY REPORTING LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2021



GROUNDWATER ANALYTICAL MAP  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

FIGURE NO.

6

DRAWN BY:

DAC



**EAGLE**  
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8000 W 44th Ave, Wheat Ridge, CO 80033  
Ph: 303-433-0479 • F: 303-325-5449





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**Table 4: Groundwater Analytical Results Summary**

**Table 5: Groundwater Elevation Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**HWY 52/CR 7**  
**PROPERTY ASSESSMENT**  
**PARCEL NUMBER 146703000004**  
**NW¼ NW¼ SEC.3 T1N R68W 6PM**  
**WELD COUNTY, COLORADO**

Sample Location (Latitude/Longitude)	Date	Approximate Depth	PID Reading (ppm-v)	Lab Submission (Y/N)
MW-04 @ 15-17.5' (40.085671, -104.996677)	04/04/23	15-17.5'	408	Y
MW-05 @ 17.5-20' (40.085516, -104.996536)	04/04/23	17.5-20'	532	Y
MW-06 @ 17.5-20' (40.085086, -104.996385)	04/04/23	17.5-20'	537	Y
MW-07 @ 15-17.5' (40.084695, -104.996316)	04/04/23	15-17.5'	1.4	Y
MW-01 @ 15-17.5' (40.084489, -104.996844)	04/05/23	15-17.5'	25.2	Y
MW-08 @ 15-17.5' (40.084228, -104.996384)	04/05/23	15-17.5'	83.5	Y
TW-02 @ 12.5-15' (40.084344, -104.994863)	04/05/23	12.5-15'	113	Y
TW-03 @ 12.5-15' (40.084234, -104.995054)	04/05/23	12.5-15'	104	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

Sample Location (Latitude/Longitude)	Date	Approximate Depth	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	500			0.0081	0.0087
MW-04 @ 15-17.5' (40.085671, -104.996677)	04/04/23	15-17.5'	408	<0.00200	<0.00200	<0.00200	<0.00200	3.81	<25.0	<100	<0.00200	<0.00200
MW-05 @ 17.5-20' (40.085516, -104.996536)	04/04/23	17.5-20'	532	<0.00200	<0.00200	0.0781	0.206	187	106	<100	0.365	0.0693
MW-06 @ 17.5-20' (40.085086, -104.996385)	04/04/23	17.5-20'	537	<0.00200	<0.00200	0.00602	0.0268	204	78.3	<100	1.63	0.0511
MW-07 @ 15-17.5' (40.084695, -104.996316)	04/04/23	15-17.5'	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200
MW-01 @ 15-17.5' (40.084489, -104.996844)	04/05/23	15-17.5'	25.2	<0.00200	<0.00200	<0.00200	<0.00200	0.714	146	<100	<0.00200	<0.00200
MW-08 @ 15-17.5' (40.084228, -104.996384)	04/05/23	15-17.5'	83.5	<0.00200	<0.00200	<0.00200	<0.00200	10.3	188	<100	<0.00200	<0.00200
TW-02 @ 12.5-15' (40.084344, -104.994863)	04/05/23	12.5-15'	113	<0.00200	<0.00200	<0.00200	<0.00200	6.63	180	<100	<0.00200	<0.00200
TW-03 @ 12.5-15' (40.084234, -104.995054)	04/05/23	12.5-15'	104	<0.00200	<0.00200	0.00204	0.00434	130	78.5	<100	<0.00200	0.00298
COGCC = Colorado Oil and Gas Conservation Commission				mg/kg = milligrams per kilogram				mg/L = milligrams per liter				
SAR = Sodium Adsorption Ratio				PID = Photoionization Detector				ppm-v = parts per million by volume				
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				1,2,4-TMB = 1,2,4-Trimethylbenzene				mmhos/cm = millimhos per centimeter				
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				1,3,5-TMB = 1,3,5-Trimethylbenzene								
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics												
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.												
Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.												

TABLE 3  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

Sample Location (Latitude/Longitude)	Date	Approximate Depth	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)- anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)	
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3	
MW-04 @ 15-17.5' (40.085671, -104.996677)	04/04/23	15-17.5'	408	<0.00109	<0.00194	<0.000304	<0.000334	<0.000493	<0.000468	<0.000585	<0.000437	<0.000624	<0.000614	<0.000394	0.00078	<0.000627	<0.00145	<0.000643	
MW-05 @ 17.5-20' (40.085516, -104.996536)	04/04/23	17.5-20'	532	0.03	0.0543	0.000798	0.002	0.00275	<0.000468	0.00113	<0.000437	0.00463	<0.000614	0.00413	0.0179	<0.000627	0.0172	0.00732	
MW-06 @ 17.5-20' (40.085086, -104.996385)	04/04/23	17.5-20'	537	0.189	0.384	0.00137	0.00412	0.00498	<0.000468	0.00184	0.000827	0.0105	<0.000614	0.00642	0.0551	0.000764	0.05	0.0124	
MW-07 @ 15-17.5' (40.084695, -104.996316)	04/04/23	15-17.5'	1.4	<0.00109	<0.00194	<0.000304	<0.000334	<0.000493	<0.000468	<0.000585	<0.000437	<0.000624	<0.000614	<0.000394	<0.000286	<0.000627	<0.00145	<0.000643	
MW-01 @ 15-17.5' (40.084489, -104.996844)	04/05/23	15-17.5'	25.2	<0.00549	<0.00972	<0.00152	0.0112	0.0107	0.00839	0.00714	<0.00219	0.0445	<0.00307	0.00458	0.119	0.00453	<0.0073	0.0253	
MW-08 @ 15-17.5' (40.084228, -104.996384)	04/05/23	15-17.5'	83.5	<0.00109	<0.00194	0.00142	0.00523	0.00621	0.00433	0.00472	0.000931	0.0136	0.000859	0.00878	0.0113	0.00194	<0.00145	0.0161	
TW-02 @ 12.5-15' (40.084344, -104.994863)	04/05/23	12.5-15'	113	<0.00549	<0.00972	<0.00152	0.0029	<0.00247	<0.00234	<0.00293	<0.00219	0.0126	<0.00307	<0.00197	0.0112	<0.00314	<0.0073	0.00802	
TW-03 @ 12.5-15' (40.084234, -104.995054)	04/05/23	12.5-15'	104	<0.00109	<0.00194	0.021	0.011	<0.000493	<0.000468	<0.000585	<0.000437	0.0263	<0.000614	<0.000394	0.225	<0.00627	0.0298	0.0215	
COGCC = Colorado Oil and Gas Conservation Commission				PID = Photoionization Detector				ppm-v = parts per million by volume				mg/kg = milligrams per kilogram				NA = Not Analyzed			
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory minimum detection levels.																			
Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Level limits.																			

**TABLE 4**  
**GROUNDWATER ELEVATION SUMMARY**  
**HWY 52/CR 7**  
**PROPERTY ASSESSMENT**  
**PARCEL NUMBER 146703000004**  
**NW¼ NW¼ SEC.3 T1N R68W 6PM**  
**WELD COUNTY, COLORADO**

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.084489, -104.996844)	04/10/23	99.60	11.38	88.22
MW-02 (40.084993, -104.996867)	04/10/23	98.38	11.75	86.63
MW-03 (40.085448, -104.996932)	04/10/23	96.91	11.56	85.35
MW-04 (40.085671, -104.996677)	04/10/23	96.20	11.39	84.81
MW-05 (40.085516, -104.996536)	04/10/23	96.71	11.74	84.97
MW-06 (40.085086, -104.996385)	04/10/23	97.70	11.54	86.16
MW-07 (40.084695, -104.996316)	04/10/23	100.00	11.28	88.72
MW-08 (40.084228, -104.996384)	04/10/23	99.92	11.56	88.36
NOTES: TOC - top of casing				



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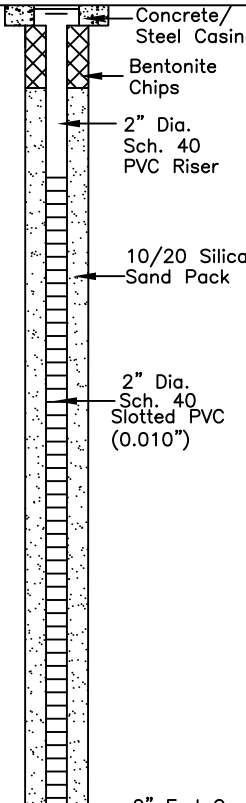
TABLE 5  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
HWY 52/CR 7  
PROPERTY ASSESSMENT  
PARCEL NUMBER 146703000004  
NW¼ NW¼ SEC.3 T1N R68W 6PM  
WELD COUNTY, COLORADO

Sample Location (Latitude/Longitude)	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	1,2,4- Trimethylbenzene (ug/L)	1,3,5- Trimethylbenzene (ug/L)	Naphthalene (ug/L)
<b>COGCC Table 915-1 Cleanup Concentrations</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>	<b>67</b>	<b>67</b>	<b>140</b>
MW-01 (40.084489, -104.996844)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.084993, -104.996867)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.085448, -104.996932)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04 (40.085671, -104.996677)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.085516, -104.996536)	04/10/23	<1.00	<1.00	56	119	<b>82.1</b>	7.44	3.3
MW-06 (40.085086, -104.996385)	04/10/23	<1.00	<1.00	95.5	477	<2.00	<b>130</b>	23.9
MW-07 (40.084695, -104.996316)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-08 (40.084228, -104.996384)	04/10/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
TW-02 (40.084344, -104.994863)	04/12/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
TW-03 (40.084234, -104.995054)	04/12/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
COGCC = Colorado Oil and Gas Conservation Commission								
ug/L = micrograms per liter								
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.								
Values presented in <b>BOLD</b> contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits								



## **ATTACHMENT A**

### **Soil Boring Logs/Well Construction Diagrams**

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9') silty CLAY - dark brown to brown, moist, fine grained, moderately-graded, stiff, with ~60% clay	CL	DP	1	100	4.6	N/A			
						4.4				
5	(7.5-8') sand lens, brown, medium grained, poorly-graded, medium stiff, ~80% sand		DP	2	100	5.5	N/A	5		
						7.1				
10	@~10' - wet		DP	3	100	5.4	N/A	10		
						5.0				
15	(15-17.5') silty CLAY - brown to red-brown with black staining and strong HC odor, moist, fine grained with medium gravel, poorly-graded, soft to stiff, with ~30% clay		DP	4	80	25.2	N/A	15		
	(17.5-19') silty CLAY - grey, moist, fine grained, moderately graded, stiff with compression fracturing, ~70% clay. Refusal at 19'					1.5				
	BoB @ 19'									
20								20		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
25								25		
30										

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): 2-19

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 4-19

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 19

WELL DEPTH (FEET): 19

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1025/1100

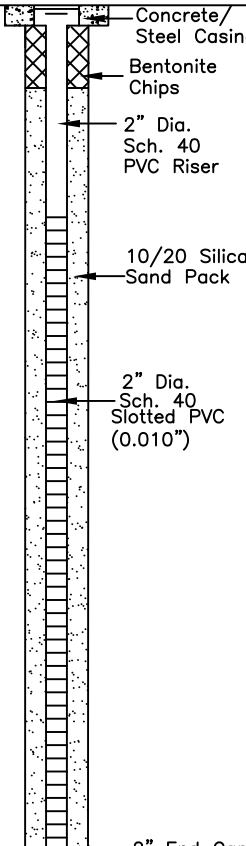
SAMPLE COLLECTION DEPTH (FT.)/TIME: 15-17.5/1055



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-19') silty CLAY - brown, dry to moist, fine grained, moderately-graded, stiff to very stiff, with ~60% clay, N/O, N/S	CL	DP	1	80	3.7	N/A			
						3.4				
5			DP	2	100	3.2	N/A	5		
						3.0				
10			DP	3	100	3.2	N/A	10		
						2.7				
15	@~14' - wet		DP	4	100	3.4	N/A	15		
20	(19-20') silty CLAY - brown, wet, medium stiff, fine grained, poorly graded with medium to large gravel, N/O, N/S		DP	5	50	4.8	N/A	20		
	BoB @ 20'									
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

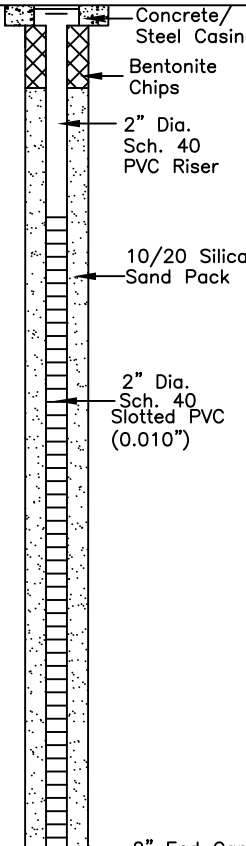
TIME STARTED/COMPLETED: 1445/1510

SAMPLE COLLECTION DEPTH (FT.)/TIME: N/A



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') silty CLAY - brown, dry to moist, fine grained, moderately-graded, stiff to medium stiff, with ~60% clay, N/O, N/S	CL	DP	1	90	6.2	N/A			
						6.2				
5	(5-10') silty CLAY - brown, moist, fine grained, moderately-graded, medium soft, with ~60% clay, N/O, N/S		DP	2	80	5.1	N/A	5		
	@~9' - wet					5.4				
10			DP	3	90	5.2	N/A	10		
						5.6				
15			DP	4	100	5.2	N/A	15		
20	(19.5-20') silty CLAY - brown, wet, medium stiff, fine grained, poorly graded with medium to large gravel, N/O, N/S		DP	5	80	4.3	N/A	20		
	BoB @ 20'									
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

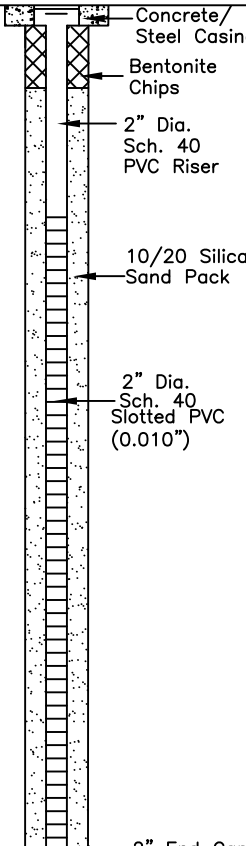
TIME STARTED/COMPLETED: 1400/1430

SAMPLE COLLECTION DEPTH (FT.)/TIME: N/A



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 CONSULTING, LLC

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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-3') silty CLAY - brown/red, dry, fine grained, moderately-graded, stiff, with ~60% clay, N/O, N/S	CL	DP	1	90	7.6	N/A			
	(3-3.5') CONCRETE - light grey, dry, fine grained, moderately-graded					6.5				
5	(3.5-17.5') silty CLAY - light brown with calcium carbonate deposits, moist to wet, fine grained, moderately-graded, very stiff to stiff, with ~70% clay		DP	2	100	9.6	N/A	5		
						6.1				
10			DP	3	100	8.6	N/A	10		
						4.0				
15	@~15' - wet		DP	4	100	408.2	N/A	15		
	(17-19') silty CLAY - black with HC impacts, wet, medium stuff, fine grained, moderately-graded, HC odor					121.8				
20	(19-20') silty CLAY - brown, wet, medium stiff, fine grained, poorly graded with medium to large gravel		DP	5	100		N/A	20		
	BoB @ 20'									
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

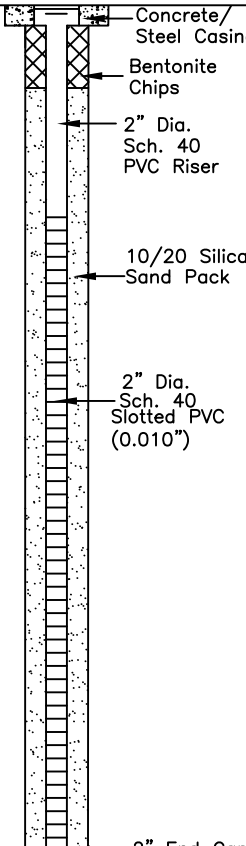
TIME STARTED/COMPLETED: 1320/1358

SAMPLE COLLECTION DEPTH (FT.)/TIME: 15-17.5/1355



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-15') silty CLAY - brown, dry to moist, fine grained, moderately-graded, stiff to very stiff, with ~60% clay	CL	DP	1	90	48.4	N/A			
						9.7				
5			DP	2	100	6.3	N/A	5		
						5.1				
10	@~12' - wet		DP	3	90	3.7	N/A	10		
						3.3				
15	(15-19.5') silty CLAY - grey/black with HC staining, moist, fine grained, moderately-graded, HC odor, stiff with ~60% clay		DP	5	70	472.2	N/A	15		
						532.3				
20	(19.5-20') silty CLAY - brown, wet, medium stiff, fine grained, poorly graded with medium to large gravel		DP	6	90		N/A	20		
	BoB @ 20'									
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

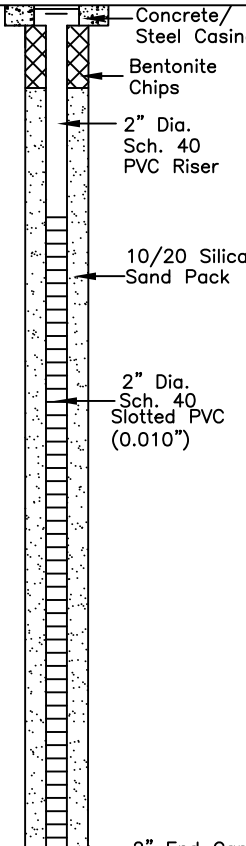
TIME STARTED/COMPLETED: 1155/1240

SAMPLE COLLECTION DEPTH (FT.)/TIME: 17.5-20/1238



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') silty CLAY - brown, dry to moist, fine grained, moderately-graded, stiff to very stiff, with ~60% clay, N/O, N/S	CL	DP	1	90	0.9	N/A			
						0.7				
5	(5-10') silty CLAY - brown, dry to moist, medium grained with small gravel, poorly-graded, stiff, with ~60% clay, N/O, N/S		DP	2	80	0.4	N/A	5		
						0.4				
10	(10-15') silty CLAY - brown, moist to wet, fine grained, moderately-graded, stiff, with ~60% clay  @~12' - wet		DP	3	90	21.6	N/A	10		
						382.4				
15	(14-17.5') silty CLAY - grey with black HC staining, wet, fine grained, moderately-graded, stiff, HC odor, with ~60% clay		DP	4	100	383.7	N/A	15		
20	(17.5-20') SAND - black with HC staining, wet, fine to medium grained, moderately-graded, medium stiff with large gravel		DP	5	60	537.2	N/A	20		
	BoB @ 20'									
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

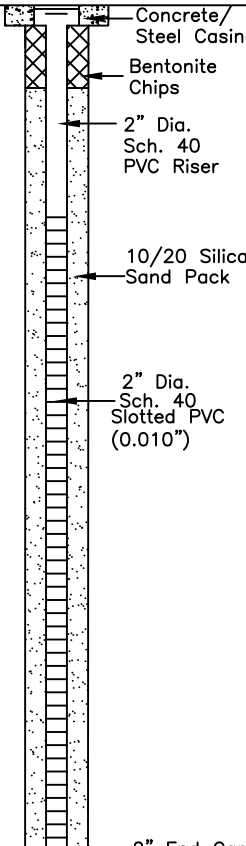
TIME STARTED/COMPLETED: 1050/1137

SAMPLE COLLECTION DEPTH (FT.)/TIME: 17.5-20/1135



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-16') silty CLAY - brown, dry to moist, fine to medium grained, moderately-graded, stiff, with ~60% clay, N/O, N/S	CL	DP	1	70	0.8	N/A			
						0.4				
5			DP	2	100	0.4	N/A	5		
						0.3				
10	@~12' - wet		DP	3	100	0.5	N/A	10		
			DP	4	100	0.4	N/A	15		
15	(16-19.5') silty CLAY - brown with black staining, wet, medium grained, moderately-graded, stiff, with ~60% clay		DP	5	80	0.4	N/A			
	(19.5-20') silty CLAY - dark brown, wet, medium stiff, fine grained, poorly graded with medium to large gravel, N/O, N/S		DP	6	80	0.4	N/A			
20	BoB @ 20'							20		
25								25		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/04/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

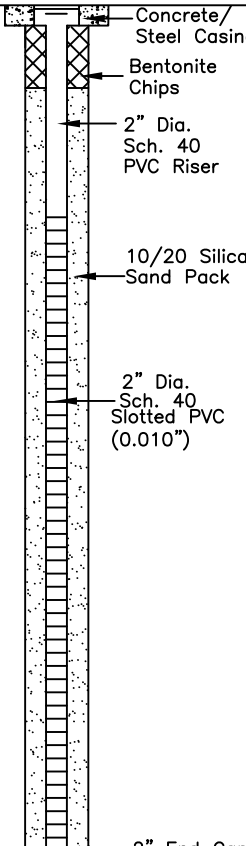
TIME STARTED/COMPLETED: 0930/1010

SAMPLE COLLECTION DEPTH (FT.)/TIME: 15-17.5/1000



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') Potholed - No lithology	CL	PH	1	N/A	N/A	N/A			
5	(5-11') silty CLAY - brown, moist to wet, fine grained, moderately-graded, stiff, with ~70% clay, N/O, N/S @~7' - wet		DP	2	100	8.2 5.0	N/A	5		
10	(11-15') silty CLAY - brown, wet, fine grained, moderately-graded, soft, with ~70% clay, N/O, N/S		DP	3	100	4.0 3.0	N/A	10		
15	(15-17.5') silty CLAY - brown with black and grey HC staining, wet, fine grained, moderately-graded, soft, strong HC odor, with ~70% clay,		DP	4	60	83.5	N/A	15		
20	(17.5-20') silty CLAY - brown/red, wet, medium, loose, medium to large grained, poorly graded with medium to large gravel BoB @ 20'		DP	5	50	5.0	N/A	20		
25								25		HA - Hand Auger PH - Pothole DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): 2-20

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1105/1140

SAMPLE COLLECTION DEPTH (FT.)/TIME: 15-17.5/1135



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-14') silty CLAY - brown, dry, fine to medium grained, moderately-graded, stiff, with ~60% clay, N/O, N/S	CL	DP	1	90	4.6	N/A		NO WELL INSTALLED	
						2.8				
5			DP	2	100	4.0	N/A	5		
						3.7				
10	(14-15') CLAYSTONE - brown, dry, stiff, fine to medium grained, moderately graded, N/O, N/S		DP	3	100	3.8	N/A	10		
			DP	4	80	3.9	N/A	15		
15	BoB @ 15'									
20										
25										
30										

HA - Hand Auger  
 DP - Direct Push  
 HC - Hydrocarbon  
 BoB - Bottom of Boring  
 N/O - no odor  
 N/S - no staining  
 TOC - top of casing  
 bgs - below ground surface

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1335/1355

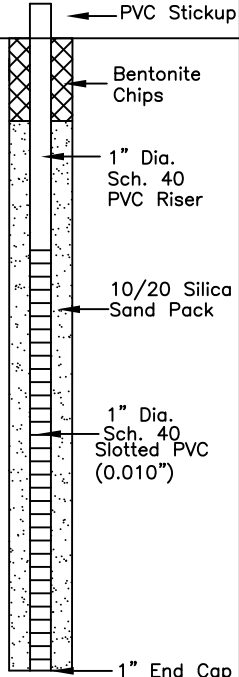
SAMPLE COLLECTION DEPTH (FT.)/TIME: N/A



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-9') silty CLAY - brown, dry, fine to medium grained, moderately-graded, medium stiff, with ~60% clay	CL	DP	1	90	3.8	N/A			
						4.0				
5			DP	2	100	3.2	N/A	5		
						3.3				
10	@~10' - wet (10-12.5') silty CLAY - black/grey HC staining, wet, medium stuff, fine grained, moderately graded with no odor. (12.5-15') silty CLAY - black staining, wet, medium stuff, fine grained, moderately graded with HC odor.	CL	DP	3	80	3.0	N/A	10		
						113.9				
15	BoB @ 15'							15		
20								20		
25								25		
30										

HA - Hand Auger  
DP - Direct Push  
HC - Hydrocarbon  
BoB - Bottom of Boring  
N/O - no odor  
N/S - no staining  
TOC - top of casing  
bgs - below ground surface

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): 2-15

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #10

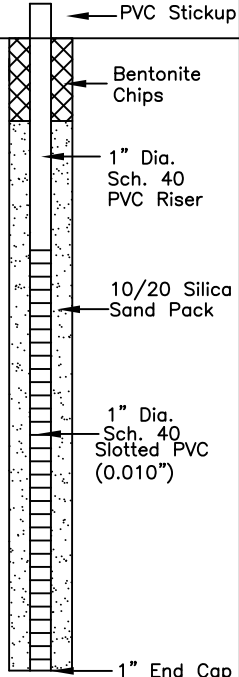
TIME STARTED/COMPLETED: 1400/1430

SAMPLE COLLECTION DEPTH (FT.)/TIME: 12.5-15/1425



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') silty CLAY - brown, dry, fine to medium grained, moderately-graded, stiff, with ~70% clay	CL	DP	1	95	3.2	N/A			
						3.1				
5	(6-9') silty CLAY - light grey, dry, fine to medium grained, moderately-graded, medium stiff, with ~60% clay		DP	2	100	3.2	N/A	5		
						25.9				
10	(10-14') silty CLAY - black/grey HC staining, moist to wet, stiff, fine grained, moderately graded with HC odor.		DP	3	100	30.4	N/A	10		
	@~13' - wet					104.9				
15	(14-15') CLAYSTONE - brown, moist, stiff, fine to medium grained, moderately graded, N/O, N/S							15		
	BoB @ 15'									
20								20		HA - Hand Auger DP - Direct Push HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
25								25		
30										

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): 2-15

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): 0-2

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): 5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1220/1250

SAMPLE COLLECTION DEPTH (FT.)/TIME: 12.5-15/1245



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-8') silty CLAY - brown, dry, fine to medium grained, moderately-graded, stiff, with ~60% clay, N/O, N/S	CL	DP	1	90	7.4	N/A		NO WELL INSTALLED	
						5.6				
5			DP	2	100	5.2	N/A	5		
						4.7				
10	(8-13') silty CLAY - brown/red, dry, fine to medium grained, moderately-graded, stiff, with ~60% clay, N/O, N/S		DP	3	100	4.2	N/A	10		
			DP	4	60	5.5	N/A			
15	(13-14') CLAYSTONE - brown, dry, stiff, fine to medium grained, moderately graded, N/O, N/S									
	BoB @ 14'									
20										
25										
30										

HA - Hand Auger  
 DP - Direct Push  
 HC - Hydrocarbon  
 BoB - Bottom of Boring  
 N/O - no odor  
 N/S - no staining  
 TOC - top of casing  
 bgs - below ground surface

START/COMPLETION DATE: 04/05/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: HWY 52/CR 7

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: K. MARCUM

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 14

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #10

TIME STARTED/COMPLETED: 1310/1330

SAMPLE COLLECTION DEPTH (FT.)/TIME: N/A



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 CONSULTING, LLC

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## **ATTACHMENT B**

### **Laboratory Analytical Reports**



April 13, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - HWY 52/CR 7

Project Number - [none]

Attached are your analytical results for HWY 52/CR 7 received by Origins Laboratory, Inc. April 04, 2023. This project is associated with Origins project number Y304063-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-04@15-17.5'	Y304063-01	Soil	April 4, 2023 13:55	04/04/2023 16:40
MW-05@17.5-20'	Y304063-02	Soil	April 4, 2023 12:38	04/04/2023 16:40
MW-06@17.5-20'	Y304063-03	Soil	April 4, 2023 11:35	04/04/2023 16:40
MW-07@15-17.5'	Y304063-04	Soil	April 4, 2023 10:00	04/04/2023 16:40

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

www.originslaboratory.com

4304003

ORIGINS LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge CO 80033  
Telephone Number: 303-433-0199  
Email Address: MCE3@eagle-environment.com

Project Manager: Martin Eckert III  
Project Name: HWY 52/CR 7  
Project Number: —  
Samples Collected By: KPM

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
MW-04 @ 15'-17.5'	4/14/23	1315	2	X				X			PAHs - 8210 DICA (KPA) - 8210 TMS - 8210 6, 8, 12, 16, 18, 20	1 MWs needed
MW-05 @ 17.5'-20'		1238										2
MW-06 @ 17.5'-20'		1135										3
MW-07 @ 15'-17.5'		1000										4
												5
												6
												7
												8
												9
												10

Relinquished By: [Signature] Date: 4/14/23 Time: 1640  
Relinquished By: [Signature] Date: 4/14/23 Time: 1040

Received By: [Signature] Date: 4/14/23 Time: 1040  
Received By: [Signature] Date: 4/14/23 Time: 1040

Turnaround Time: ☐ 24 Hr ☐ 48 Hr ☒ Standard

Temp Received- 2 Date Results Needed

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

*[Signature]*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: VR040603

Client: Eagle Environ

Client Project ID: HWY 52/CR 7

Checklist Completed by: JH/CHS

Shipped Via: TD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/14/23

Airbill #: 20A

Matrix(s) Received: (Check all that apply): X Soil/Solid ISH Water \_\_\_\_\_ Other: \_\_\_\_\_

Cooler Number/Temperature: 1, 2 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by JB (Project Manager)

4-9-23  
Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-04@15-17.5'

4/4/2023 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304063-01 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.6 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.81	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 103 % 70-130 " " "

## PAH by 8270D SIM

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-04@15-17.5'

4/4/2023 1:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304063-01 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00078	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.2 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-05@17.5-20'  
4/4/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304063-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	106		25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 98.6 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.365		0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	
1,3,5-Trimethylbenzene	0.0693		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.0781		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.206		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	187		5.00	"	25	"	"	04/06/2023	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " 04/06/2023  
Surrogate: Toluene-d8 136 % 70-130 " " S-GC  
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

## PAH by 8270D SIM

1-Methylnaphthalene	0.03	0.00109	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-05@17.5-20'  
4/4/2023 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304063-02 (Soil)

## PAH by 8270D SIM

2-Methylnaphthalene	0.0543	0.00194	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023
Acenaphthene	0.000798	0.000304	0.00067	"	"	"	"	"
Anthracene	0.002	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00275	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00113	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00463	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00413	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0179	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.0172	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00732	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.4 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-06@17.5-20'  
4/4/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304063-03 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	78.3		25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 102 % 50-150 " " "

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	1.63		0.0500	mg/kg	25	B3D0529	04/05/2023	04/06/2023	
1,3,5-Trimethylbenzene	0.0511		0.00200	"	1	"	"	04/06/2023	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00602		0.00200	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0268		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	204		5.00	"	25	"	"	04/06/2023	

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " 04/06/2023  
Surrogate: Toluene-d8 205 % 70-130 " " S-GC  
Surrogate: 4-Bromofluorobenzene 108 % 70-130 " " "

## PAH by 8270D SIM

1-Methylnaphthalene	0.189	0.00109	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-06@17.5-20'  
4/4/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304063-03 (Soil)

## PAH by 8270D SIM

2-Methylnaphthalene	0.384	0.00194	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023
Acenaphthene	0.00137	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00412	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00498	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00184	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000827	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0105	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00642	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0551	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000764	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.05	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0124	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	41.7 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

MW-07@15-17.5'  
4/4/2023 10:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304063-04 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	103 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## PAH by 8270D SIM

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

**MW-07@15-17.5'**  
**4/4/2023 10:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y304063-04 (Soil)**

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675227	04/10/2023	04/11/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	48.2 %	29-110	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
Blank (B3D0501-BLK1)					Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
LCS (B3D0501-BS1)					Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3D0501 - EPA 3580

Matrix Spike (B3D0501-MS1)		Source: Y304035-01			Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
Matrix Spike Dup (B3D0501-MSD1)		Source: Y304035-01			Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	999	50.0	mg/kg	1000	ND	99.9	70-130	7.59	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	9.47	35	
Surrogate: o-Terphenyl	48		"	49.8		96.1	50-150			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0529 - EPA 5030 (soil)										
Blank (B3D0529-BLK1)					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0529 - EPA 5030 (soil)										
LCS (B3D0529-BS1)					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0805	0.00200	"	0.100		80.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0878	0.00200	"	0.100		87.8	70-130			
o-Xylene	0.0916	0.00200	"	0.100		91.6	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D0529 - EPA 5030 (soil)</b>										
<b>LCS Dup (B3D0529-BSD1)</b>					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	0.125	0.00200	mg/kg	0.100		125	70-130	16.9	20	
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130	14.1	20	
Benzene	0.0803	0.00200	"	0.100		80.3	70-130	0.348	20	
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130	9.71	20	
Naphthalene	0.112	0.00380	"	0.100		112	70-130	4.68	20	
Toluene	0.100	0.00200	"	0.100		100	70-130	13.2	20	
o-Xylene	0.101	0.00200	"	0.100		101	70-130	10.1	20	
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130	9.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675227 - 3550B**

MSD (L 93591-MSD-L675227)		Source: 93591			Prepared: 04/10/2023 Analyzed: 04/11/2023					
2-Methylnaphthalene	0.487	0.0101	mg/Kg	0.164	0.764	0	30-130	94.5	30	*
Dibenz(a,h)anthracene	0.0628	0.00335	"	0.164	<0.00307	38.2	30-130	2.7	30	
Chrysene	0.105	0.00335	"	0.164	0.0221	50.5	30-130	3.7	30	
Benzo(k)fluoranthene	0.0676	0.00335	"	0.164	<0.00219	41.2	30-130	22.1	30	
Benzo(b)fluoranthene	0.0505	0.00335	"	0.164	<0.00293	30.7	30-130	4.4	30	
Benzo(a)pyrene	0.114	0.00335	"	0.164	<0.00234	69.5	30-130	9.1	30	
Benzo(a)anthracene	0.104	0.00335	"	0.164	0.00445	60.7	30-130	1.9	30	
Anthracene	0.108	0.00335	"	0.164	<0.00167	65.8	30-130	14.9	30	
1-Methylnaphthalene	0.286	0.0101	"	0.164	0.387	0	30-130	90.3	30	*
Indeno(1,2,3-cd)pyrene	0.0352	0.00335	"	0.164	<0.00314	21.4	30-130	10.4	30	*
Acenaphthene	0.113	0.00335	"	0.164	0.0273	52.2	30-130	15.5	30	
Fluoranthene	0.112	0.00335	"	0.164	<0.00197	68.2	30-130	15.5	30	
Naphthalene	0.188	0.0101	"	0.164	0.174	8.5	30-130	73.6	30	*
Pyrene	0.106	0.00335	"	0.164	0.0112	57.8	30-130	4.8	30	
Fluorene	0.138	0.00335	"	0.164	0.112	15.8	30-130	63.3	30	*
Surrogate: 4-Terphenyl-d14	54.7		"	0.329	126	54.7	33-122			
Surrogate: 2-Fluorobiphenyl	57.7		"	0.329	158	57.7	33-115			
Surrogate: Nitrobenzene-d5	44.9		"	0.329	154	44.9	29-110			

MS (L 93591-MS-L675227)		Source: 93591			Prepared: 04/10/2023 Analyzed: 04/11/2023					
Chrysene	0.109	0.00335	mg/Kg	0.166	0.0221	52.3	30-130			
Pyrene	0.101	0.00335	"	0.166	0.0112	54	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675227 - 3550B**

MS (L 93591-MS-L675227)		Source: 93591			Prepared: 04/10/2023 Analyzed: 04/11/2023					
Naphthalene	0.407	0.0101	mg/Kg	0.166	0.174	140	30-130			*
Indeno(1,2,3-cd)pyrene	0.0391	0.00335	"	0.166	<0.00314	23.5	30-130			*
Fluorene	0.266	0.00335	"	0.166	0.112	92.7	30-130			
Dibenz(a,h)anthracene	0.0611	0.00335	"	0.166	<0.00307	36.8	30-130			
Benzo(k)fluoranthene	0.0541	0.00335	"	0.166	<0.00219	32.5	30-130			
2-Methylnaphthalene	1.36	0.0101	"	0.166	0.764	359	30-130			*
1-Methylnaphthalene	0.757	0.0101	"	0.166	0.387	223	30-130			*
Fluoranthene	0.0958	0.00335	"	0.166	<0.00197	57.7	30-130			
Benzo(b)fluoranthene	0.0528	0.00335	"	0.166	<0.00293	31.8	30-130			
Acenaphthene	0.132	0.00335	"	0.166	0.0273	63	30-130			
Anthracene	0.093	0.00335	"	0.166	<0.00167	56	30-130			
Benzo(a)anthracene	0.102	0.00335	"	0.166	0.00445	58.7	30-130			
Benzo(a)pyrene	0.104	0.00335	"	0.166	<0.00234	62.6	30-130			
Surrogate: Nitrobenzene-d5	35.6		"	0.331	154	35.6	29-110			
Surrogate: 2-Fluorobiphenyl	45.9		"	0.331	158	45.9	33-115			
Surrogate: 4-Terphenyl-d14	45.6		"	0.331	126	45.6	33-122			

**LCS (LCS-L675227)**

Prepared: 04/10/2023 Analyzed: 04/11/2023

Chrysene	0.118	0.00067	mg/Kg	0.167		70.6	30-130
Anthracene	0.117	0.00067	"	0.167		70	30-130
Naphthalene	0.11	0.00201	"	0.167		65.8	30-130
Indeno(1,2,3-cd)pyrene	0.0582	0.00067	"	0.167		34.8	30-130
Fluorene	0.116	0.00067	"	0.167		69.4	30-130
Fluoranthene	0.124	0.00067	"	0.167		74.2	30-130
Dibenz(a,h)anthracene	0.0886	0.00067	"	0.167		53	30-130
Pyrene	0.121	0.00067	"	0.167		72.4	30-130
Benzo(b)fluoranthene	0.0782	0.00067	"	0.167		46.8	30-130

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675227 - 3550B**

**LCS (LCS-L675227)**

Prepared: 04/10/2023 Analyzed: 04/11/2023

Benzo(a)anthracene	0.124	0.00067	mg/Kg	0.167		74.2	30-130			
Acenaphthene	0.113	0.00067	"	0.167		67.6	30-130			
2-Methylnaphthalene	0.113	0.00201	"	0.167		67.6	30-130			
1-Methylnaphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Benzo(a)pyrene	0.136	0.00067	"	0.167		81.4	30-130			
Benzo(k)fluoranthene	0.0948	0.00067	"	0.167		56.7	30-130			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			

**LRB (LRB-L675227)**

Prepared: 04/10/2023 Analyzed: 04/11/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	55.2		"	0.333		55.2	29-110			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

PAH by 8270D SIM - Quality Control  
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675227 - 3550B

LRB (LRB-L675227)

Prepared: 04/10/2023 Analyzed: 04/11/2023

Surrogate: 4-Terphenyl-d14	63.3		mg/Kg	0.333		63.3	33-122			
Surrogate: 2-Fluorobiphenyl	56.7		"	0.333		56.7	33-115			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: HWY 52/CR 7

## Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jordan A. Bynon, Project Manager



April 17, 2023

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - HWY 52/CR 7

Project Number - [none]

Attached are your analytical results for HWY 52/CR 7 received by Origins Laboratory, Inc. April 05, 2023. This project is associated with Origins project number Y304089-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@15-17.5'	Y304089-01	Soil	April 5, 2023 10:55	04/05/2023 17:25
MW-08@15-17.5'	Y304089-02	Soil	April 5, 2023 11:35	04/05/2023 17:25
TW-02@12.5-15'	Y304089-03	Soil	April 5, 2023 14:25	04/05/2023 17:25
TW-03@12.5-15'	Y304089-04	Soil	April 5, 2023 12:45	04/05/2023 17:25

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

www.originslaboratory.com

page 1 of 1

4304089

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-2474  
Email Address: MCE302@eagle-environment.com

Project Manager: Martin Eckert III  
Project Name: HWY 52/CR 7  
Project Number: —  
Samples Collected By: CM

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other			
MW-01 @ 15'-17.5'	4/15/23	10:55	2	X				X						1
MW-02 @ 15'-17.5'		11:35	1											2
TW-02 @ 12.5'-15'		11:25	1											3
TW-03 @ 12.5'-15'		12:45	1											4
														5
														6
														7
														8
														9
														10

Relinquished By: [Signature]  
Relinquished By: [Signature]

Date: 4/15/23  
Time: 17:25

Received By: EHS  
Time: 4/15/23

Date: 4/15/23  
Time: 17:25

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☒ Standard ☐

Temp Received: 3.0  
Date Results Needed

1725 Elk Place  
Denver, CO 80211  
Phone: 303.433.1322

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

## Sample Receipt Checklist

Origins Work Order: 4304089

Client: Eagle

Client Project ID: HWY 52/CR 7

Checklist Completed by: EHS/TSM

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/5/23

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 3.0 °C

1 °C

1 °C

1 °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) CDH

Date/Time Reviewed 4/5/23

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**MW-01@15-17.5'**  
**4/5/2023 10:55:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304089-01 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	146	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.2 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.714	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "  
Surrogate: Toluene-d8 105 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

MW-01@15-17.5'  
4/5/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304089-01 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L675844	04/13/2023	04/13/2023
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	0.0112	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	0.0107	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.00839	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	0.00714	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.0445	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	0.00458	0.00197	0.00335	"	"	"	"	"
Fluorene	0.119	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00453	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"
Pyrene	0.0253	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	68.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

MW-08@15-17.5'  
4/5/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y304089-02 (Soil)

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	188	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.2 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	10.3	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	112 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

## PAH by 8270D SIM

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

MW-08@15-17.5'  
4/5/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y304089-02 (Soil)

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675972	04/13/2023	04/13/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00142	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00523	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00621	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00433	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00472	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000931	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0136	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.000859	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00878	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0113	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00194	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.0161	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.4 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**TW-02@12.5-15'**

**4/5/2023 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304089-03 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	180	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.0 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	6.63	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
Surrogate: Toluene-d8 110 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**TW-02@12.5-15'**

**4/5/2023 2:25:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y304089-03 (Soil)**

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L675972	04/13/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	<b>0.0029</b>	<b>0.00167</b>	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	<b>0.0126</b>	<b>0.00312</b>	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	<b>0.0112</b>	<b>0.00143</b>	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	<b>0.00802</b>	<b>0.00322</b>	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.1 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**TW-03@12.5-15'**  
**4/5/2023 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304089-04 (Soil)**

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	78.5	25.0	mg/kg	1	B3D0501	04/05/2023	04/07/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.5 %	50-150	"	"	"
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## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D0529	04/05/2023	04/06/2023	U
1,3,5-Trimethylbenzene	0.00298	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00204	0.00200	"	"	"	"	"	
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00434	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	130	5.00	"	25	"	"	04/06/2023	

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	"	"	04/06/2023
Surrogate: Toluene-d8	108 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	315 %	70-130	"	"	" S-GC

## PAH by 8270D SIM

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**TW-03@12.5-15'**  
**4/5/2023 12:45:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y304089-04 (Soil)**

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0109	0.0201	mg/Kg	10	L675972	04/13/2023	04/13/2023
2-Methylnaphthalene	ND	0.0194	0.0201	"	"	"	"	"
Acenaphthene	<b>0.021</b>	<b>0.00304</b>	0.0067	"	"	"	"	"
Anthracene	<b>0.011</b>	<b>0.00334</b>	0.0067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	<b>0.0263</b>	<b>0.00624</b>	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"
Fluorene	<b>0.225</b>	<b>0.00286</b>	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	<b>0.0298</b>	<b>0.0145</b>	0.0201	"	"	"	"	"
Pyrene	<b>0.0215</b>	<b>0.00643</b>	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.8 %	29-110	"	"	"

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
Blank (B3D0501-BLK1)					Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
LCS (B3D0501-BS1)					Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000		118	70-130			
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D0501 - EPA 3580

Matrix Spike (B3D0501-MS1)		Source: Y304035-01			Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0501 - EPA 3580										
Matrix Spike Dup (B3D0501-MSD1)		Source: Y304035-01			Prepared: 04/05/2023 Analyzed: 04/07/2023					
Diesel (C10-C28)	999	50.0	mg/kg	1000	ND	99.9	70-130	7.59	35	
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130	9.47	35	
Surrogate: o-Terphenyl	48		"	49.8		96.1	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0529 - EPA 5030 (soil)										
Blank (B3D0529-BLK1)					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D0529 - EPA 5030 (soil)</b>										
<b>LCS (B3D0529-BS1)</b>					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0805	0.00200	"	0.100		80.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.0878	0.00200	"	0.100		87.8	70-130			
o-Xylene	0.0916	0.00200	"	0.100		91.6	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D0529 - EPA 5030 (soil)</b>										
<b>LCS Dup (B3D0529-BSD1)</b>					Prepared: 04/05/2023 Analyzed: 04/05/2023					
1,2,4-Trimethylbenzene	0.125	0.00200	mg/kg	0.100		125	70-130	16.9	20	
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130	14.1	20	
Benzene	0.0803	0.00200	"	0.100		80.3	70-130	0.348	20	
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130	9.71	20	
Naphthalene	0.112	0.00380	"	0.100		112	70-130	4.68	20	
Toluene	0.100	0.00200	"	0.100		100	70-130	13.2	20	
o-Xylene	0.101	0.00200	"	0.100		101	70-130	10.1	20	
m,p-Xylene	0.204	0.00400	"	0.200		102	70-130	9.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		113	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675972 - 3550B**

MSD (L 95703-MSD-L675972)		Source: 95703			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Benzo(b)fluoranthene	0.0777	0.00067	mg/Kg dry	0.162	<0.000585	47.9	30-130	3.7	30	
Fluorene	0.0842	0.00067	"	0.162	<0.000286	51.9	30-130	6.8	30	
Naphthalene	0.0757	0.00201	"	0.162	<0.00145	46.7	30-130	10.3	30	
Dibenz(a,h)anthracene	0.0945	0.00067	"	0.162	<0.000614	58.3	30-130	6.6	30	
Chrysene	0.0912	0.00067	"	0.162	<0.000624	56.2	30-130	6.2	30	
Benzo(k)fluoranthene	0.0812	0.00067	"	0.162	<0.000437	50.1	30-130	7.9	30	
Benzo(a)pyrene	0.0987	0.00067	"	0.162	<0.000468	60.9	30-130	6.1	30	
Benzo(a)anthracene	0.0986	0.00067	"	0.162	<0.000493	60.8	30-130	5.3	30	
Anthracene	0.0902	0.00067	"	0.162	<0.000334	55.6	30-130	7	30	
Acenaphthene	0.0814	0.00067	"	0.162	<0.000304	50.2	30-130	6.8	30	
2-Methylnaphthalene	0.0851	0.00201	"	0.162	<0.00194	52.5	30-130	6.8	30	
1-Methylnaphthalene	0.0831	0.00201	"	0.162	<0.00109	51.2	30-130	5.9	30	
Pyrene	0.0981	0.00067	"	0.162	<0.000643	60.5	30-130	6.7	30	
Indeno(1,2,3-cd)pyrene	0.0839	0.00067	"	0.162	<0.000627	51.7	30-130	7.2	30	
Fluoranthene	0.0986	0.00067	"	0.162	<0.000394	60.8	30-130	6.2	30	
Surrogate: Nitrobenzene-d5	41.8		"	0.325	174	41.8	29-110			
Surrogate: 4-Terphenyl-d14	52.3		"	0.325	208	52.3	33-122			
Surrogate: 2-Fluorobiphenyl	45.8		"	0.325	192	45.8	33-115			

MS (L 95703-MS-L675972)		Source: 95703			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Chrysene	0.0971	0.00067	mg/Kg dry	0.164	<0.000624	59.2	30-130			
1-Methylnaphthalene	0.0882	0.00201	"	0.164	<0.00109	53.7	30-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## PAH by 8270D SIM - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L675972 - 3550B

MS (L 95703-MS-L675972)		Source: 95703			Prepared: 04/13/2023 Analyzed: 04/13/2023					
2-Methylnaphthalene	0.0911	0.00201	mg/Kg dry	0.164	<0.00194	55.5	30-130			
Acenaphthene	0.0872	0.00067	"	0.164	<0.000304	53.1	30-130			
Anthracene	0.0968	0.00067	"	0.164	<0.000334	59	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.164	<0.000493	63.4	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.164	<0.000468	64	30-130			
Benzo(k)fluoranthene	0.0879	0.00067	"	0.164	<0.000437	53.5	30-130			
Dibenz(a,h)anthracene	0.101	0.00067	"	0.164	<0.000614	61.5	30-130			
Fluoranthene	0.105	0.00067	"	0.164	<0.000394	64	30-130			
Fluorene	0.0902	0.00067	"	0.164	<0.000286	55	30-130			
Naphthalene	0.084	0.00201	"	0.164	<0.00145	51.2	30-130			
Pyrene	0.105	0.00067	"	0.164	<0.000643	64	30-130			
Indeno(1,2,3-cd)pyrene	0.0902	0.00067	"	0.164	<0.000627	55	30-130			
Benzo(b)fluoranthene	0.0807	0.00067	"	0.164	<0.000585	49.2	30-130			
Surrogate: 2-Fluorobiphenyl	45.4		"	0.328	192	45.4	33-115			
Surrogate: 4-Terphenyl-d14	54.5		"	0.328	208	54.5	33-122			
Surrogate: Nitrobenzene-d5	40.2		"	0.328	174	40.2	29-110			

### LCS (LCS-L675972)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Fluoranthene	0.121	0.00067	mg/Kg	0.167		72.4	30-130
2-Methylnaphthalene	0.108	0.00201	"	0.167		64.6	30-130
Acenaphthene	0.104	0.00067	"	0.167		62.2	30-130
Anthracene	0.113	0.00067	"	0.167		67.6	30-130
Benzo(a)anthracene	0.121	0.00067	"	0.167		72.4	30-130
Benzo(a)pyrene	0.125	0.00067	"	0.167		74.8	30-130
Benzo(b)fluoranthene	0.105	0.00067	"	0.167		62.8	30-130
Pyrene	0.12	0.00067	"	0.167		71.8	30-130
Benzo(k)fluoranthene	0.0994	0.00067	"	0.167		59.5	30-130

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675972 - 3550B**

**LCS (LCS-L675972)**

Prepared: 04/13/2023 Analyzed: 04/13/2023

Dibenz(a,h)anthracene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Fluorene	0.107	0.00067	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.0985	0.00067	"	0.167		58.9	30-130			
Naphthalene	0.101	0.00201	"	0.167		60.4	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
Chrysene	0.109	0.00067	"	0.167		65.2	30-130			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: Nitrobenzene-d5	53.1		"	0.333		53.1	29-110			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			

**LRB (LRB-L675972)**

Prepared: 04/13/2023 Analyzed: 04/13/2023

Chrysene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.9		"	0.333		51.9	29-110			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

PAH by 8270D SIM - Quality Control  
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675972 - 3550B

LRB (LRB-L675972)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Surrogate: 2-Fluorobiphenyl	57.6		mg/Kg	0.333		57.6	33-115			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333		64.8	33-122			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675844 - 3550B**

MSD (L 94605-MSD-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Naphthalene	0.108	0.00201	mg/Kg	0.166	<0.00145	65	30-130	5.4	30	
Indeno(1,2,3-cd)pyrene	0.119	0.00067	"	0.166	<0.000627	71.6	30-130	9.6	30	
Fluorene	0.117	0.00067	"	0.166	<0.000286	70.4	30-130	3.3	30	
Chrysene	0.119	0.00067	"	0.166	<0.000624	71.6	30-130	1.6	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.166	<0.000614	78.3	30-130	0.7	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.166	0.000604	62.2	30-130	4.6	30	
Fluoranthene	0.125	0.00067	"	0.166	<0.000394	75.3	30-130	2.3	30	
Benzo(a)pyrene	0.125	0.00067	"	0.166	0.000742	74.8	30-130	0.7	30	
Benzo(a)anthracene	0.13	0.00067	"	0.166	<0.000493	78.3	30-130	4.5	30	
Anthracene	0.119	0.00067	"	0.166	<0.000334	71.6	30-130	4.1	30	
Acenaphthene	0.114	0.00067	"	0.166	<0.000304	68.6	30-130	5.1	30	
2-Methylnaphthalene	0.117	0.00201	"	0.166	<0.00194	70.4	30-130	6.6	30	
1-Methylnaphthalene	0.113	0.00201	"	0.166	<0.00109	68	30-130	6	30	
Benzo(k)fluoranthene	0.107	0.00067	"	0.166	<0.000437	64.4	30-130	0	30	
Pyrene	0.124	0.00067	"	0.166	<0.000643	74.6	30-130	2.3	30	
Surrogate: Nitrobenzene-d5	57.2		"	0.332	167	57.2	29-110			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			
Surrogate: 2-Fluorobiphenyl	64.4		"	0.332	197	64.4	33-115			

MS (L 94605-MS-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Fluoranthene	0.128	0.00067	mg/Kg	0.166	<0.000394	77.1	30-130			
1-Methylnaphthalene	0.12	0.00201	"	0.166	<0.00109	72.2	30-130			
Naphthalene	0.114	0.00201	"	0.166	<0.00145	68.6	30-130			
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130			
Pyrene	0.127	0.00067	"	0.166	<0.000643	76.5	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.166	<0.000614	78.9	30-130			
Chrysene	0.121	0.00067	"	0.166	<0.000624	72.8	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L675844 - 3550B**

MS (L 94605-MS-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
2-Methylnaphthalene	0.125	0.00201	mg/Kg	0.166	<0.00194	75.3	30-130			
Benzo(b)fluoranthene	0.109	0.00067	"	0.166	0.000604	65.2	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.166	0.000742	75.4	30-130			
Benzo(a)anthracene	0.136	0.00067	"	0.166	<0.000493	81.9	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Acenaphthene	0.12	0.00067	"	0.166	<0.000304	72.2	30-130			
Benzo(k)fluoranthene	0.107	0.00067	"	0.166	<0.000437	64.4	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.166	<0.000627	65	30-130			
Surrogate: Nitrobenzene-d5	59.6		"	0.332	167	59.6	29-110			
Surrogate: 2-Fluorobiphenyl	67.7		"	0.332	197	67.7	33-115			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			

LCS (LCS-L675844)		Prepared: 04/13/2023 Analyzed: 04/13/2023								
1-Methylnaphthalene	0.119	0.00201	mg/Kg	0.167		71.2	30-130			
Chrysene	0.125	0.00067	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Fluoranthene	0.135	0.00067	"	0.167		80.8	30-130			
Fluorene	0.124	0.00067	"	0.167		74.2	30-130			
Naphthalene	0.114	0.00201	"	0.167		68.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0951	0.00067	"	0.167		56.9	30-130			
2-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Benzo(a)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
Pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.102	0.00067	"	0.167		61	30-130			
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## PAH by 8270D SIM - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L675844 - 3550B

#### LCS (LCS-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Benzo(a)pyrene	0.138	0.00067	mg/Kg	0.167		82.6	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.333	63		29-110			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333	72.3		33-115			
Surrogate: 4-Terphenyl-d14	78		"	0.333	78		33-122			

#### LRB (LRB-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333	63.9		33-115			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333	66.9		33-122			
Surrogate: Nitrobenzene-d5	59.1		"	0.333	59.1		29-110			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jordan A. Bynon, Project Manager



April 14, 2023

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - HWY 52/CR 7

Project Number - [none]

Attached are your analytical results for HWY 52/CR 7 received by Origins Laboratory, Inc. April 11, 2023. This project is associated with Origins project number Y304237-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y304237-01	Water	April 10, 2023 14:15	04/11/2023 17:40
MW-02	Y304237-02	Water	April 10, 2023 14:00	04/11/2023 17:40
MW-03	Y304237-03	Water	April 10, 2023 13:45	04/11/2023 17:40
MW-04	Y304237-04	Water	April 10, 2023 13:27	04/11/2023 17:40
MW-05	Y304237-05	Water	April 10, 2023 13:14	04/11/2023 17:40
MW-06	Y304237-06	Water	April 10, 2023 12:56	04/11/2023 17:40
MW-07	Y304237-07	Water	April 10, 2023 12:42	04/11/2023 17:40
MW-08	Y304237-08	Water	April 10, 2023 10:30	04/11/2023 17:40

#### Chain of Custody Modification Request

On 4/13/2023, Dave Castro from Eagle Environmental contacted Jordan Bynon via email regarding Y304237 requesting that the PM be changed to him.

Requested modifications to the chain of custody were made by Jordan Bynon on 4/13/2023.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

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4304237 page 1 of 1

ORIGINS  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge CO 80033  
Telephone Number: 303-433-0479  
Email Address: mcg@eagle-lab.com

Project Manager: Martin Echeverri III  
Project Name: HWY 52 / CR 7  
Project Number: ---  
Samples Collected By: km

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
MW-01	4/10/23	1415	3	X				X				1	WDA needed
MW-02		1400										2	
MW-03		1345										3	
MW-04		1327										4	
MW-05		1314										5	
MW-06		1256										6	
MW-07		1242										7	
MW-08		1030										8	
												9	
												10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Kidman</u>	<u>4/10/23</u>	<u>1740</u>	<u>EHS</u>	<u>4/11/23</u>	<u>1740</u>	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed

Temp Received- 4.0

Origins Laboratory, Inc.

*J. Bynon*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: 4304237

Client: Eagle

Client Project ID: HWY 52/CR 7

Checklist Completed by: ENS

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/11/23

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1 / 4.0 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/13/23  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-01

4/10/2023 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-02

4/10/2023 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-02 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-03

4/10/2023 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-03 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-04

4/10/2023 1:27:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-04 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-05

4/10/2023 1:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-05 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0821	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	
1,3,5-Trimethylbenzene	0.00744	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	0.0560	0.00100	"	"	"	JSM	"	"	
Naphthalene	0.00330	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	0.119	0.00100	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

102 %  
99.3 %  
103 %

70-130  
70-130  
70-130

"  
"  
"

"  
"  
"

"  
"  
"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-06

4/10/2023 12:56:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-06 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	0.130	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	0.0955	0.00100	"	"	"	JSM	"	"	
Naphthalene	0.0239	0.00200	"	"	"	JSM	"	"	
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	0.447	0.00100	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4  
Surrogate: Toluene-d8  
Surrogate: 4-Bromofluorobenzene

102 % 70-130  
102 % 70-130  
106 % 70-130

" " "  
" " "  
" " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-07

4/10/2023 12:42:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-07 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	97.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	111 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## MW-08

4/10/2023 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y304237-08 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/L	1	B3D1230	JSM	04/12/2023	04/13/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00100	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00200	"	"	"	JSM	"	"	U
Toluene	ND	0.00100	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00100	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	99.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1230 - EPA 5030B (Water)										
Blank (B3D1230-BLK1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/L							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00100	"							U
Ethylbenzene	ND	0.00100	"							U
Naphthalene	ND	0.00200	"							U
Toluene	ND	0.00100	"							U
Xylenes, total	ND	0.00100	"							U
Surrogate: 1,2-Dichloroethane-d4	0.063		"	0.0625		101	70-130			
Surrogate: Toluene-d8	0.065		"	0.0625		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.060		"	0.0625		95.2	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1230 - EPA 5030B (Water)</b>										
<b>LCS (B3D1230-BS1)</b>					Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0558	0.00200	mg/L	0.0500		112	70-130			
1,3,5-Trimethylbenzene	0.0584	0.00200	"	0.0500		117	70-130			
Benzene	0.0548	0.00100	"	0.0500		110	70-130			
Ethylbenzene	0.0559	0.00100	"	0.0500		112	70-130			
m,p-Xylene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.0520	0.00200	"	0.0500		104	70-130			
o-Xylene	0.0547	0.00100	"	0.0500		109	70-130			
Toluene	0.0592	0.00100	"	0.0500		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.062		"	0.0625		99.4	70-130			
Surrogate: Toluene-d8	0.061		"	0.0625		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.065		"	0.0625		104	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1230 - EPA 5030B (Water)										
Matrix Spike (B3D1230-MS1)		Source: Y304237-01			Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0446	0.00200	mg/L	0.0500	ND	89.2	70-130			
1,3,5-Trimethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130			
Benzene	0.0517	0.00100	"	0.0500	ND	103	70-130			
Ethylbenzene	0.0534	0.00100	"	0.0500	ND	107	70-130			
m,p-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
Naphthalene	0.0208	0.00200	"	0.0500	ND	41.5	70-130			QM-07
o-Xylene	0.0461	0.00100	"	0.0500	ND	92.2	70-130			
Toluene	0.0544	0.00100	"	0.0500	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.063		"	0.0625		101	70-130			
Surrogate: Toluene-d8	0.058		"	0.0625		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.073		"	0.0625		118	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1230 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B3D1230-MSD1)</b>		<b>Source: Y304237-01</b>			Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	0.0478	0.00200	mg/L	0.0500	ND	95.6	70-130	6.90	20	
1,3,5-Trimethylbenzene	0.0506	0.00200	"	0.0500	ND	101	70-130	8.35	20	
Benzene	0.0572	0.00100	"	0.0500	ND	114	70-130	10.1	20	
Ethylbenzene	0.0576	0.00100	"	0.0500	ND	115	70-130	7.70	20	
m,p-Xylene	0.119	0.00200	"	0.100	ND	119	70-130	7.81	20	
Naphthalene	0.0440	0.00200	"	0.0500	ND	88.0	70-130	71.7	20	QM-07
o-Xylene	0.0497	0.00100	"	0.0500	ND	99.5	70-130	7.58	20	
Toluene	0.0605	0.00100	"	0.0500	ND	121	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.062		"	0.0625		99.0	70-130			
Surrogate: Toluene-d8	0.057		"	0.0625		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.069		"	0.0625		110	70-130			

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*





April 17, 2023

Eagle Environmental Consulting, LLC

David Castro

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - HWY 52/CR 7

Project Number - [none]

Attached are your analytical results for HWY 52/CR 7 received by Origins Laboratory, Inc. April 12, 2023. This project is associated with Origins project number Y304259-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

David Castro

Project Number: [none]

Project: HWY 52/CR 7

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-02	Y304259-01	Water	April 12, 2023 13:45	04/12/2023 14:45
TW-03	Y304259-02	Water	April 12, 2023 14:00	04/12/2023 14:45

### Chain of Custody Modification Request

On 4/13/2023, Dave Castro from Eagle Environmental contacted Jordan Bynon via email regarding Y304259 requesting that the PM be changed to him.

Requested modifications to the chain of custody were made by Jordan Bynon on 4/13/2023.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

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page 1 of 1  
4304259

ORIGINS  
LABORATORY, INC

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
Telephone Number: 303-433-0479  
Email Address: WLC3@eagle-enviro.com

Project Manager: MARK ECKERT III  
Project Name: HWY 52/CR 7  
Project Number: -  
Samples Collected By: CT

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other	
TW-02	04/12/13	1345	3	X	↓						X	↓	1	
TW-03	↓	1400	↓								X	↓	2	
											X	↓	3	
													4	
													5	
													6	
													7	
													8	
													9	
													10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
Carroll	04/12/13	1445	EHS	4/12/13	1445	Standard

Date Results Needed: 4/27/13

Temp Received: 5.4

Origins Laboratory, Inc.

*J. Bynon*

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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

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Origins Laboratory

F-012207-01-R1  
Effective Date: 01/09/12

### Sample Receipt Checklist

Origins Work Order: 4304259

Client: Eagle

Client Project ID: Hwy 52/CR 7

Checklist Completed by: EHS

Shipped Via: HD  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/12/23

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_

Cooler Number/Temperature: 1 15.4 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		/		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	/			not checked
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/13/23  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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8000 W 44th Ave  
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Project Number: [none]  
Project: HWY 52/CR 7

TW-02

4/12/2023 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y304259-01 (Water)

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3D1230	JSM	04/12/2023	04/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130	"	"	"

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David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

TW-03

4/12/2023 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y304259-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3D1230	JSM	04/12/2023	04/13/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
Surrogate: Toluene-d8	96.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

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Project Number: [none]  
Project: HWY 52/CR 7

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1230 - EPA 5030B (Water)										
Blank (B3D1230-BLK1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.2	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

David Castro  
Project Number: [none]  
Project: HWY 52/CR 7

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1230 - EPA 5030B (Water)										
LCS (B3D1230-BS1)					Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	55.8	2.00	ug/L	50.0		112	70-130			
1,3,5-Trimethylbenzene	58.4	2.00	"	50.0		117	70-130			
Benzene	54.8	1.00	"	50.0		110	70-130			
Ethylbenzene	55.9	1.00	"	50.0		112	70-130			
m,p-Xylene	116	2.00	"	100		116	70-130			
Naphthalene	52.0	2.00	"	50.0		104	70-130			
o-Xylene	54.7	1.00	"	50.0		109	70-130			
Toluene	59.2	1.00	"	50.0		118	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Project: HWY 52/CR 7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D1230 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B3D1230-MS1)</b>		<b>Source: Y304237-01</b>			Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	44.6	2.00	ug/L	50.0	ND	89.2	70-130			
1,3,5-Trimethylbenzene	46.5	2.00	"	50.0	ND	93.0	70-130			
Benzene	51.7	1.00	"	50.0	ND	103	70-130			
Ethylbenzene	53.4	1.00	"	50.0	ND	107	70-130			
m,p-Xylene	110	2.00	"	100	ND	110	70-130			
Naphthalene	20.8	2.00	"	50.0	ND	41.5	70-130			QM-07
o-Xylene	46.1	1.00	"	50.0	ND	92.2	70-130			
Toluene	54.4	1.00	"	50.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	73		"	62.5		118	70-130			

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## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1230 - EPA 5030B (Water)										
Matrix Spike Dup (B3D1230-MSD1)		Source: Y304237-01			Prepared: 04/12/2023 Analyzed: 04/12/2023					
1,2,4-Trimethylbenzene	47.8	2.00	ug/L	50.0	ND	95.6	70-130	6.90	20	
1,3,5-Trimethylbenzene	50.6	2.00	"	50.0	ND	101	70-130	8.35	20	
Benzene	57.2	1.00	"	50.0	ND	114	70-130	10.1	20	
Ethylbenzene	57.6	1.00	"	50.0	ND	115	70-130	7.70	20	
m,p-Xylene	119	2.00	"	100	ND	119	70-130	7.81	20	
Naphthalene	44.0	2.00	"	50.0	ND	88.0	70-130	71.7	20	QM-07
o-Xylene	49.7	1.00	"	50.0	ND	99.5	70-130	7.58	20	
Toluene	60.5	1.00	"	50.0	ND	121	70-130	10.6	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	57		"	62.5		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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### Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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